

FUEL CELL FLOW FIELD DESIGN

Abstract

A fuel cell comprising a stack of two or more flow field plates with flow field paths on one or both surfaces of each flow field plate may have a plurality of flow field paths of substantially different length and geometry on each surface. Despite these differences, the electric current density may be substantially uniform among all portions of the fuel cell by providing each flow field path a cross-sectional area determined in proportion to the flow length and geometry of that flow field path.